

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/039773

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D231/56 C07D409/12 A61K31/416 A61P3/00 A61P9/00
A61P29/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97/28137 A (MERCK & CO., INC; ADAMS, ALAN, D; BERGER, JOEL, P; BERGER, GREGORY, D;) 7 August 1997 (1997-08-07) page 4, line 14 - line 22; claims, in particular claim 13 (pp. 184-186,188) and 14 (pp. 195,196)	1-67
X	WO 02/083648 A (EISAI CO., LTD; OINUMA, HITOSHI; OHI, NORIHITO; SATO, NOBUAKI; SOEJIMA) 24 October 2002 (2002-10-24) claims 1,25,28,31,32; examples I-65 -/--	1-3,9, 13,15, 16,20, 23, 31-33, 41,45, 48,52-64

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

19 April 2005

Date of mailing of the international search report

29/04/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Hanisch, I

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/10137 A (SIGNAL PHARMACEUTICALS, INC; BHAGWAT, SHRIPAD, S; SATOH, YOSHITAKA; SA) 7 February 2002 (2002-02-07) claims 1,25,26; example 144	1-3,9, 13,15, 16,20, 23, 30-33, 41,45, 48,52-64
Y	WO 03/084916 A (WARNER-LAMBERT COMPANY LLC; FILZEN, GARY, FREDERICK; TRIVEDI, BHARAT,) 16 October 2003 (2003-10-16) abstract; claims 1,8-14	1-67
P,Y	WO 2004/063155 A (ELI LILLY AND COMPANY; CONNER, SCOTT, EUGENE; MANTLO, NATHAN, BRYAN; Z) 29 July 2004 (2004-07-29) the whole document	1-67

INTERNATIONAL SEARCH REPORT

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PCT/US2004/039773

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 53-56 and 58-63 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/039773

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9728137	A	07-08-1997	AT 236137 T	15-04-2003
			AU 708055 B2	29-07-1999
			AU 1856397 A	22-08-1997
			AU 1856997 A	22-08-1997
			CA 2244836 A1	07-08-1997
			DE 69720429 D1	08-05-2003
			DE 69720429 T2	15-01-2004
			EP 0882029 A1	09-12-1998
			ES 2194179 T3	16-11-2003
			JP 2002503203 T	29-01-2002
			WO 9728137 A1	07-08-1997
			WO 9728149 A1	07-08-1997
			US 6090836 A	18-07-2000
			ZA 9700824 A	30-10-1998
WO 02083648	A	24-10-2002	CA 2440842 A1	24-10-2002
			CN 1512987 A	14-07-2004
			EP 1380576 A1	14-01-2004
			WO 02083648 A1	24-10-2002
			US 2004127538 A1	01-07-2004
WO 0210137	A	07-02-2002	AU 7908901 A	13-02-2002
			CA 2417650 A1	07-02-2002
			EP 1313711 A2	28-05-2003
			JP 2004513882 T	13-05-2004
			NZ 524045 A	30-07-2004
			WO 0210137 A2	07-02-2002
			US 2004127536 A1	01-07-2004
			US 2004077877 A1	22-04-2004
			US 2005009876 A1	13-01-2005
			US 2002103229 A1	01-08-2002
WO 03084916	A	16-10-2003	AU 2003212578 A1	20-10-2003
			BR 0309169 A	25-01-2005
			CA 2481246 A1	16-10-2003
			EP 1494989 A2	12-01-2005
			HR 20040916 A2	31-12-2004
			WO 03084916 A2	16-10-2003
			US 2003225158 A1	04-12-2003
WO 2004063155	A	29-07-2004	AU 2003296405 A1	10-08-2004
			WO 2004063155 A1	29-07-2004
			AU 2003300131 A1	04-11-2004
			AU 2003303681 A1	10-08-2004
			WO 2004063190 A1	29-07-2004
			WO 2004092131 A1	28-10-2004